What Is Claimed Is:

- 1. A field emission display panel comprising:
- a first electrically insulating plate;
- a plurality of emitter stacks formed on said first electrically insulating plate, each of said emitter stacks being positioned parallel to a transverse direction of said first insulating plate and comprises a layer of a first electrically conductive material having a first width and a layer of nanotube emitter having a second width on top, said second width being less than 3/4 of said first width;
- a second electrically insulating plate positioned over and spaced-apart from said first electrically insulating plate having an inside surface facing said first plate;
- a layer of a second electrically conductive material on said inside surface of said second insulating plate;
- a multiplicity of strips of fluorescent powder coating on said second electrically conductive material each for emitting a red, green or blue light upon activation by electrons emitted from said plurality of emitter stacks; and
- a plurality of side panels joining peripheries of said first and second electrically insulating plates together forming a vacuum-tight cavity therein.

- 2. A field emission display panel according to claim 1, wherein said second width of said layer of nanotube emitter being between about 1/4 and about 3/4 of said first width of said layer of first electrically conductive material.
- 3. A field emission display panel according to claim 1, wherein said second electrically insulating plate further comprises a black matrix layer in-between said multiplicity of strips of fluorescent powder coating.
- 4. A field emission display panel according to claim

 1, wherein said first and second electrically insulating plates are
 formed of a ceramic material that is substantially transparent.
- 5. A field emission display panel according to claim 1, wherein said layer of a first electrically conductive material is a cathode for said field emission display panel.
- 6. A field emission display panel according to claim 1, wherein said layer of a first electrically conductive material is a silver paste.

- 7. A field emission display panel according to claim 1, wherein said layer of second electrically conductive material is a first anode for said field emission display panel.
- 8. A field emission display panel according to claim 1, wherein said layer of second electrically conductive material is formed of indium-tin-oxide (ITO).
- 9. A field emission display panel according to claim

 1, wherein said layer of nanotube emitter being formed of a mixture

 of nanometer dimensioned hollow tubes and a binder material.
- 10. A field emission display panel according to claim 1, wherein said layer of nanotube emitter being formed of a mixture of nanometer dimensioned hollow tubes of carbon, diamond or diamond-like carbon and a polymeric-based binder.
- 11. A field emission display panel according to claim 1, wherein each of said multiplicity of strips of fluorescent powder coating emits a light of red, green or blue that is different than the light emitted by its immediate adjacent strips when activated by electrons from said plurality of emitter stacks.

- 12. A field emission display panel according to claim

 1, further comprising a second layer of said first electrically

 conductive material formed on top of a plurality of rib sections

 for functioning as a second anode.
- 13. A method for fabricating a field emission display panel comprising the steps of:

providing a first electrically insulating plate;

forming a plurality of emitter stacks on said first electrically insulating plate by a thick film printing method parallel to a transverse direction of said first plate, each of said emitter stacks comprises a layer of a first electrically conductive material having a first width and a layer of nanotube emitter having a second width on top, said second width being less than 3/4 of said first width;

providing/a second electrically insulating plate;

forming a layer of a second electrically conductive material on an inside surface of said second electrically insulating plate facing said first electrically insulating plate when said first and second plates are assembled together;

forming a multiplicity of fluorescent powder coating strips on said layer of electrically conductive material for emitting a red, green or blue light when activated by electrons; and

joining said first and second electrically insulating plates together by side panels and forming a wacuum-tight cavity therein.

14. A method for fabricating a field emission display panel having a diode structure according to claim 13, wherein said second width is between about 1/4 and about 3/4 of said first width.

15. A method for fabricating a field emission display panel having a diode structure according to claim 13 further comprising the step of printing said layer of a first electrically conductive material in a silver paste.

- panel according to claim 13 further comprising the step of printing said layer of nanotube emitter from a mixture of a binder and nanometer dimensioned hollow fibers selected from the group consisting of carbon fibers, diamond fibers and diamond-like carbon fibers.
- 17. A method for fabricating a field emission display panel according to claim 13 further domprising the step of connecting a negative charge to said first electrically conductive material underlying said plurality of emitter stacks and a positive charge to said layer of second electrically conductive material.
- 18. A method for fabricating a field emission display panel having a diode structure according to claim 13 further comprising the step of coating a black matrix layer on said second electrically insulating plate in-between said multiplicity of strips of fluorescent powder coating.

- 19. A method for fabricating a field emission display panel having a diode structure according to claim 13, wherein said multiplicity of fluorescent powder coating strips is formed by a thick film printing technique.
- 20. A method for fabricating a field emission display panel having a diode structure according to claim 13 further comprising the step of depositing a layer of said first electrically conductive material on top of a plurality of rib sections for functioning as a second anode.

adda!

[i]

that with many the half condi-

the unit the